

BERSENEV, A.S.; LIPNITSKIY, A.M., red.; VYSHEMIRSKIY, M.M., inzh.,
retsenzent; AVERBUKH, N.M., inzh., red.; KUREPINA, G.N.,
red. izd-va; ROZOV, L.K., tekhn. red.

[Flaws in casting, their prevention and correction] Brak
lit'ia, ego preduprezhdenie i ispravlenie. Pod obshchei red.
A.M.Lipnitakogo. Moskva, Mashgiz, 1961. 69 p. (Biblioteka
liteishchika, no.11)

(Founding)

(MIRA 15:4)

VYSHEMIRSKIY, M. M.

PA 233T82

USSR/Metallurgy - Cast Iron, Technology Sep 52

"Production of High-Strength Cast Iron in Small Foundries," M. M. Vyshemirskiy, S. I. Kruglov, Engineers

"Litey Proizvod" No 9, pp 27-29

Cites difficulties experienced by small foundry shops due to necessity of having devices for making Mg alloys and for introducing these alloys into ladle. Attempting to develop simple and inexpensive technological process, suggests Mg-ferrosilicon with 20-25% Mg and 55-60% Si as alloy most suitable for modification of metal in ladle in process of obtaining high-strength cast irons. Application of alloy eliminates double inoculation with Cu-Mg and ferrosilicon which occurs in usual process.

233T82

VYSHEMIRSKIY, Mikhail Mikhaylovich; SLITSKAYA, I.M., inzh., red.;
FREGER, D.P., red.izd-va; GVIRTS, V.L., tekhn. red.

[Making large iron castings with a prescribed hardness and an
optimum amount of machining allowance] Izgotovlenie krupnykh
chugunnykh otlivok s zadannoi tverdost'iu i optimal'noi veli-
chinoi pripuska. Leningrad, 1963. 24 p. (Leningradskii dom
nauchno-tekhn. propagandy. Obmen peredovym opyтом. Seria:
Liteinoe proizvodstvo, no.6) (MIRA 17:3)

VISHEMIRSKIY, Mikhail Mikhaylovich; LEBEDEV, K.P., dotsent, kand.tekhn.nauk,
retsenzent; SKOBNIKOV, K.M., dotsent, kand.tekhn.nauk, red.; VARKO-
VETSKAYA, A.I., red.izd-va; FRUNKIN, P.S., tekhn.red.

[Coremaker] Sterzhenshchik. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1960. 172 p.
(Coremaking) (MIRA 13:5)

1. ZASLAVSKIY, M. Ya.: VYSHEMIRSKIY, M. M.
2. USSR (600)
4. Iron Founding
7. Producing castings from magnesium iron of high strength.
Rech. transp. 12 No. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

25(1)

PHASE I BOOK EXPLOITATION SOV/1611

Vyshemirskiy, Mikhail Mikhaylovich

Formovshchik (Mold Maker) Moscow, Mashgiz, 1958. 210 p.
12,000 copies printed.

Reviewer: A.N. Sokolov, Docent, Candidate of Technical Sciences; Ed.:
O.V. Kolacheva, Engineer; Ed. of Publishing House: A.I.
Varkovetskaya; Tech. Ed.: L.V. Sokolova; Managing Ed. for Literature on
Machine Building Technology (Leningrad Division, Mashgiz):
Ye. P. Naumov, Engineer.

PURPOSE: The book is intended for skilled mold and pattern makers engaged in
preparing molds for ferrous and nonferrous casting.

COVERAGE: The book reviews modern casting techniques for cast iron, steel, and
nonferrous metals. Various molding media and compounds are described together
with their mechanical properties and suitability for different casting methods.
Basic principles of mold making, the design of proper gating systems, feedheads,
chills and commonly used tools and machines are explained and illustrated.
Card 1/4

Mold Maker

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Basic casting methods are listed. No personalities are mentioned. There are 56 Soviet references.

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AVAILABLE: Library of Congress (TS243.V95)

GO/gmp
5-28-59

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37651

S/080/62/035/005/014/015
D247/D307

15.9.203

AUTHORS: Usov, Yu. N., Skvortsova, Ye. V., Vyshemirskiy, V. S.,
Alferova, G. V., Klyushnikova, G. G. and Smirnova,
N. S.

TITLE: Polymerization of the butane-butene fraction of crack-
ing gases on a phosphoric acid film catalyst

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 5, 1962,
1148-1150

TEXT: Various carriers for films of phosphoric acid, based on na-
tural silica, were investigated. The film catalysts were prepared
directly on the base of ground quartz of sands treated with HF.
The reaction was carried out under constant flow conditions. An
increase in pressure from atmospheric to 40 - 50 atm was found to
result in lower efficiency of the polymerization process. A series
of coarse-grained sands were also prepared as carriers to investi-
gate the effects of impurities and of specific grain surfaces. Re-
sults, expressed as the yield of diisobutylene polymer as a per-

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S/080/62/035/005/014/015
D247/D307

Polymerization of the ...

centage of the butenes present and as grams per liter of the carrier per hour, are given for a series of carriers for the film catalyst and for various times for the reaction. Optimum conditions for the process were found to be (at atmospheric pressure): a temperature of 175 - 185°C, an input rate of 75 hour⁻¹ for the reactants and a periodical addition of fresh phosphoric acid for the catalyst at the rate of 0.5 - 0.7% of the original quantity per hour. After working for 50 hours under these conditions, the activity and yields using films on quartz became comparable with those obtained with the industrial catalyst (phosphoric acid on kieselghur). Sand- or quartz-based catalysts were easier to regenerate by aqueous washing and air or steam and air blowing than the industrial catalyst. Acid-resistant steel used as a reactor vessel did not effect the reaction. There are 2 figures.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet imeni N. G. Chernyshevskogo (Saratov State University imeni N. G. Chernyshevskiy)

SUBMITTED: April 10, 1961

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4

VYSHEMIRSKIV, V.S.

Geomorphologic evidence of tectonic structures in central
Yakutia. Uch.zap.SGU 65:175-188 '59. (MIRA 16:1)
(Yakutia—Geology, Structural)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4"

VYSHEMIRSKIY, V.S.

Geological age of the Lena River, Uch.zap. SGU 74:277-279 '60.
(MIRA 15:7)
(Lena River--Geological time)

VYSHEMIRSKIY, V.S.

Migration of scattered bitumens as revealed by the Verkhoyansk piedmont region and the Stavropol Plateau. Izv. vys. ucheb. zav.; neft' i gaz 3 no.7:3-8 '60. (MIRA 15:5)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo.

(Verkhoyansk Range--Bitumen)
(Stavropol Plateau--Bitumen)

Study
VYSHENSKAYA, V. F., CAND TECH SCI, "INVESTIGATION OF THE
TEMPERATURE DEPENDENCE OF ^{the} DIFFUSION COEFFICIENTS OF GASES."
ALMA-ATA, 1961. (INSTITUTE OF POWER ENGINEERING ACAD SCI
KAZSSR). (KL-DV, 11-61, 218).

-131-

RAZUVAYEV, G.A.; LATYAYEVA, V.N.; VYSHINSKAYA, L.I.

Reactions of benzoyl peroxide with titanocene derivatives. Dokl.
AN SSSR 138 no.5:1126-1129 Je '61. (MIRA 14:6)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom
gosudarstvennom universitet im. N.I. Lobachevskogo. 2. Chlen-
korrespondent AN SSSR (for Razuvalayev).
(Benzoyl peroxide) (Titanium)

17.1150

S/124/62/000/004/025/030
D251/D301

AUTHOR: Vyshenskaya, V. F.

TITLE: Coefficients of diffusion of gases at high temperatures

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1962, 134, abstract 4B828 (Tr. Kazakhst. un-ta, 1960, no. 2, 77-82)

TEXT: A study was made of diffusion in a binary mixture of gases and the coefficients of binary diffusion were determined for different temperatures. The system iodine-carbon dioxide was investigated. The coefficient of diffusion was determined by a gravimetric method. Tubes were fused into spherical quartz retorts, so that the ends of the pipes reached the centers of the retorts. A retort was evacuated and into it there was introduced a known quantity of crystalline iodine which on heating was completely vaporized. The retort was placed in a furnace and continuously flushed with carbon dioxide heated to the required temperature. After the diffusion time had elapsed, the flask was removed from

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D251/D301

Coefficients of diffusion ...

the furnace and the iodine remaining in it was completely crystallized. The mass of the remaining iodine was then determined by weighing. The volume of iodine vapor, and the volume of carbon dioxide were then determined; and the coefficient of diffusion was evaluated according to the formula describing the process. Data were obtained in the temperature interval 280 - 1000°C (the coefficient of binary diffusion varied from 0.176 to 0.79 cm²/sec). The values obtained by measurement were compared with those obtained theoretically by the formulas of Sezerlend, Chepmen-Enskog, and the iteration formula proposed by N. D. Kosov (in the collection Issledovaniye fiz. osnov rabochego protsesa topok i pechey, Izd-vo AN KazSSR, 1957). It is established that Sezerlend's formula agrees badly with the experiment - the difference is of the order of 25 - 30%. The Chepmen-Enskog formula gives a more correct temperature dependence - the difference does not exceed 45%. The description, so well done, of the experiment gives also the interpolation formula of Kosov which, apparently, is a successful approximation to the Chepmen-Enskog formula. In contrast to the latter, the interpolation formula is convenient in practice, since it

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D251/D30

Coefficients of diffusion ...

does not require the calculation of the impact integrals in dependence on the forces of mutual action. To these results are added the investigation of diffusion in the systems H_2-CO_2 , H_2-N_2 and CO_2-N_2 in the temperature interval $20 \dots 800^{\circ}C$. [Abstracter's note: Complete translation.]

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VYSHENSKAYA, V. F.; KOSOV, N. D.

Temperature dependence of the diffusion coefficients of gases.
Teplo- i massoper. 1:181-187 '62. (MIRA 16:1)

1. Kazakhskiy gosudarstvennyy universitet im. S. M. Kirova.
(Gases at high temperatures) (Diffusion)

PLATE 1 BOOK INFORMATION 807/5179

Almaty, Kazakhstan. Universitet.

Independent professor Yermakov. Voprosy teorii obobshchennoi (studii o Transporte) (Problems in the Theory of Relativity) Almaty, 1959. 256 p. Arrets only inserted. 1,000 copies printed. (Series: IISI Study)

Sovnarkom Agency Ministerstvo Vneshnei Torgovli chlenovyskogo suda i nauchno-izdatelstvuyushchego universiteta im. S.M. Kirova.

Editorial Board: V.P. Kashkarov, N.D. Kosov, and E.M. Petrov. Resp. Ed.: I.A. Pusti. Tech. Ed.: L.D. Pashkov.

NOTES: This collection of articles is intended for research physicists and engineers. It can also be used by instructors and students at universities. CONTENT: The articles of this collection contain the results of 19 studies in transport problems and the general theory of relativity made from 1956 to 1958 by the staff of the Institute ofobshchennoi fiziki i teorii obobshchennoi fiziki Fizicheskogo universiteta im. S.M. Kirova (Institute of General Physics and University of the Institute ofobshchennoi fiziki i teorii obobshchennoi fiziki Fizicheskogo universiteta im. S.M. Kirova Kazakh State University). The articles are arranged in two groups. Group one contains 16 articles concerning the research activity of the Leninskobelskaya laboratory pri bardache obobshchennoi fiziki (Kazakh Physics Laboratory of the Department of General Physics) in the formulation of transport processes or matter, impulse and energy; group two contains three articles reporting on studies of the Department of theoretical physics on problems of the theory of relativity. Article one of the collection is an introduction and reviews the problems of transport processes and gives a fairly detailed bibliography of contributions of members of Physics department of Kazakh State University. In parentheses are mentioned references according each article.

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AVAILABLE: Library of Congress (657145)	

20/Apr/69/100
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45253

S/862/62/001/000/008/012
E202/E492

17.11.69

AUTHORS: Vyshenskaya, V.F., Kosov, N.D.

TITLE: Study of the temperature dependence of the diffusion coefficient of gases

SOURCE: Teplo- i massoperenos. t.1: Teplofizicheskiye kharakteristiki materialov i metody ikh opredeleniya. Ed. by A.V.Lykov and B.M.Smol'skiy. Minsk, Izd-vo AN BSSR, 1962, 181-187

TEXT: This paper comprises a critical review of works carried out in the Kafedra obshchey fiziki (Department of General Physics) at the Kazakh State University under the supervision of Professor L.A.Vulis. Gravimetric and absorptive-freezing out methods are discussed in detail and it is concluded that the former are unsuitable for the determination of the above coefficient where the gases have similar molecular weights, while the latter should not be used when the gases have similar freezing points. A brief review of the temperature dependence of the above diffusion coefficient is also given, including the means of extrapolating for higher temperatures and the use of various empirical relations. The relation of Ye.V.Kuvshinskiy, who found

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E202/E492

Study of the temperature ...

that the coefficient of mutual diffusion of two gases is proportional to the square root of the product of the coefficients of self-diffusion of these gases, is commented upon. The work is concluded by comparing the Chapman-Enskog formula with experimental data and a formula suggested by the author. These comparisons showed close agreement. Values of the coefficients of diffusion for I₂-CO₂; CO₂-H₂; H₂-N₂; CO₂-N₂ and I₂-N₂ in the temperature ranges from 179 to 1002, 20 to 810, 20 to 400, 20 to 310°C and 179 to 600°C respectively are tabulated. There are 3 tables.

ASSOCIATION: Kazakhskiy gosudarstvennyy universitet im. S.M.Kirova.
(Kazakh State University imeni S.M.Kirov)

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S/262/62/000/014/002/016
1007/1207

AUTHORS: Vyshenskaya, V. F. and Kosov, N. D.

TITLE: On the interdependence of diffusion coefficients for gases

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 42. Silovye ustavki, no. 14, 1961, 14, abstract 42.14.75 (Tr. Kazakhsk. in-ta, no. 2, 1960, 73-76)

TEXT: A formula linking diffusion coefficients for gases in a single expression, is suggested and experimentally checked.

[Abstracter's note: Complete translation.]

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VYSHEMUKAYA, V. F. and KOSOV, N. D.

"Study of temperature function of the gas diffusion coefficient."

Report presented at the 1st All-Union Conference on Heat- and Mass- Exchange,
Minsk, RSSR, 5-9 June 1961

S/196/61/000/001/003/006
E073/B535

11.9200

AUTHOR: Vyshenskiy, V.V.

TITLE: Convective Heat Exchange in a Cyclone Chamber

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika,
1961, No.1, p.11, abstract No.1G58. Tr. In-ta energ.
AN KazSSR, 1960, 2, 294-302

TEXT: For elucidating the real values of quantities determining the intensity of diffusion and heat exchange in the cyclone as a function of various parameters of the process, an experimental study was made of the dependence of the convective heat exchange from the air vortex to the wall of the cyclone of the described equipment. Air was fed by means of a hose via a tubular muffle furnace into the cyclone chamber, which was cooled by water flowing in counter current in the jacket. The cooled air flows out through the diaphragm and an equalization cone. The dimensions of the cyclone were selected at the scale 1:4 of an existing large scale installation. The diameter of the diaphragm opening was 45 mm, the internal diameter of the cyclone was 106 mm, the external diameter 11 $\frac{1}{4}$ mm. The water jacket had Card 1/3

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Convective Heat Exchange ...

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an internal diameter of 131 mm; the height of the cyclone was 170 mm, the cross-section of the air inlet into the cyclone was $7.4 \times 15.3 \text{ mm}^2$. In the experiments the flow rate as well as the cyclone wall temperature were measured from which the quantity of heat transferred from the air into the water could be calculated and also the magnitude of the temperature drop. The heat transfer in the cyclone was under steady state conditions with the air temperature, air and water flow rates remaining unchanged. Altogether 23 preliminary and 45 main experiments were made with outflow air speeds for the cyclone varying between 45 and 120 m/sec at 75-175°C. The drop between the average temperatures of the air vortex and the cyclone wall was 40 to 90°C. The air vortex cooled by 40-150°C, the water temperature in the jacket rose by 0.5-11.5°C. The results of the experiments, for the given range of Reynolds numbers $Re_c = 60 \cdot 10^3$ to $600 \cdot 10^3$ with deviations of $\pm 10\%$ can be expressed by the formula

$$Nu_c = 0.018 \cdot Re_c^{0.8}$$

Comparison with the heat release in a straight tube and in a coil

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Convective Heat Exchange ...

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indicates the considerable increase in the intensity of convective heat exchange in the cyclone as compared to a straight tube and a coil. To establish the final relations for calculating the convective heat exchange in cyclone chambers, it is necessary to investigate the influence on the heat transfer of the diameter of the cyclone, the ratio of the inflow to the outflow cross-section, the surface roughness of the cyclone walls etc. This enables determining the dependence of Nu not only on Re but also on the geometric parameters and to eliminate the difficulties encountered in selecting the decisive dimension in the Reynolds criterion when comparing the heat transfer in a cyclone with that in a straight tube or a coil.

[Note: The above text is a full translation of the original Soviet abstract.]

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4

TONKONOGOV, A.V.; VYSHENSKIY, V.V.

Study of convective heat transfer using models of cyclone chambers.
Probl. Teploenerg. i prikl. radiofiz. no.11783-605 164.

Study of mass transfer using models of cyclone chambers. Ibid.:206-222
(MTRA 18:8)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4"

VYSHENSKIY, V. V.

"Investigation of convective heat and mass transfer in models of cyclone chambers"

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk,
4-12 May 1964.

Power Inst, AS KazSSR.

VYSHEMIRSKIY, V.S.; KROTOVA, V.A.

Particle-size distribution of Bashkiria and Vereya sandstones of
the Volga-Don region. Dokl. AN SSSR 151 no.1:185-188 J1 '63.
(MIRA 16:9)

1. Saratovskiy gosudarstvennyy universitet im. N.G.Chernyshevskogo.
Predstavleno akademikom N.M.Strakhovym.
(Volga Valley—Particle size determination)
(Don Valley—Particle size determination)

VYSHEMIRSKIY, V.S.

Upper paleozoic and mesozoic erosion and sediment accumulation in
Central Yakutia. Dokl. AN SSSR 98 no.5:821-823 O '54. (MLRA 8:2)

1. Predstavleno akademikom N.M.Strakhovym.
(Yakutia--Geology, Stratigraphic)

USOV, Yu.N.; SKVORTSOVA, Ye.V.; VYSHEMIRSKIY, V.S.; ALFEROVA, G.V.;
KLYUSHNIKOVA, G.G.; SMIRNOVA, N.S.

Polymerization of the butane-butene fraction of cracked gas
on a phosphoric acid film catalyst. Zhur.prikl.khim. 35
no.5:1148-1150 My '62. (MIRA 15:5)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.
Chernyshevskogo.

(Butene)
(Polymerization) (Phosphoric acid)

VYSHEMIRSKIY, V.S.; VARLAMOV, I.P.

Phases of quaternary glaciation in western Verkhoyansk. Dokl. AN SSSR
109 no.1:167-168 J1-Aug '56. (MIRA 9:10)

1. Predstavлено академиком Н.М. Страховым.
(Verkhoyansk Range--Glacial epoch)

VYSHEMIRSKIY, V.S.

Using carbon coefficient method for determining oil potential.
Geol, nefti 2 no,6;46-50 Je '58. (MIRA 11:7)

1.Saratovskiy gosudarstvennyy universitet.
(Carbon) (Oil fields--Valuation)

VYSHEMIRSKIY, V.S.; VARLAMOV, I.P.

Development of the relief of the western Verkhoyansk Range,
and the adjacent parts of the Siberian Platform. Geog.sbor.
no.10:142-150 '58. (MIRA 12:1)
(Verkhoyansk Range--Geology, Structural)
(Siberian Platform--Geology, Structural)

Vyshenirskiy, V. S.

USSR/Geology

Card 1/1 Pub. 22 - 33/47

Authors : Vyshenirskiy, V. S.

Title : Upper Paleozoic and Mesozoic regions of washout and depositions of Central Yakutya

Periodical : Dok. AN SSSR 98/5, 821-823, Oct 11, 1954

Abstract : Geological data on Upper Paleozoic and Mesozoic washout and deposition accumulation regions in Central Yakutya are presented. Five USSR references (1936-1948).

Institution : ...

Presented by : Academician N. M. Strakhov, August 14, 1954

VYSHEMIRSKIY, Vladislav Stanislavovich; VINNIKOVA, I.A., red.

[Geological conditions governing the metamorphism of coals
and oils] Geclogicheskie uslovija metamorfizma uglej i nefti.
Saratov, Izd-vo Saratovskogo univ., 1963. 376 p.
(MIRA 18:4)

VYSHENKOV, I.; VASILENKO, A.

Start of an important work ("Using aviation in agriculture of northern regions" by N.S.Antrushin. Reviewed by I.V.Vyshenkov, A.Vasilenko). Grazhd.av.13 no.12:34 D '56. (MLRA 10:2)
(Aeronautics in agriculture) (Antrushin, N.S.)

SOV/84-59-10-46/53

AUTHOR: Vyshenkov, I., Chief Engineer

TITLE: "Help Arrived from Russia"

PERIODICAL: Grazhdanskaya aviatsiya, 1959, Nr 10, pp 32-33 (USSR)

ABSTRACT: This is a note on the first Soviet expedition to Afghanistan, sent to that country this year, for the extermination of locusts by request of the Afghan government. The expedition consisted of two Ar.-1 airplanes flown by pilots I. Drachenko and B. Eunov-Kal', ground personnel, and a group of Soviet agro-nomists. It stayed in Afghanistan (the Mazari-Sherif province) for 23 workdays, and exterminated locusts over an area of 23,074 hectares. On behalf of the Minister of Agriculture, the Governor General of the above-named province expressed deep gratitude for the help rendered and rewarded all members of the expedition with presents. There are 2 photographs.

ASSOCIATION: Upravleniye aviatsii spetsial'nogo primeneniya i vozdushnykh s"yemok (Administration of Aviation for Special Activities and Aerial Photography)

Card 1/1

VYSHENKOV, I.

From the institute to the field. Grazhd. av. 21 no.5:15 My '64.

(MIRA 18:4)

1. Nachal'niy ot dela sel'skokhozyaystvennoy aviatsii Gosudarstvennogo nauchno-issledovatel'skogo instituta Grazhdanskogo vozrozhshnogo flota.

VYSHENKOV, I.

Salting pastures from airplanes, Grazhd. av. 12 no.7:31 J1 '55.

(MIFI 11:6)

(Pastures) (Aeronautics in agriculture)

Vyshenkova, O. I.

SOV/81-59-14-57625

Translation from: Referativnyj zhurnal. Khimiya, 1959, Nr 16, p 262 (USSR)

AUTHORS: Il'inskij, V.P., Seferovich, Ya.Ye., Uverskaya, A.T., Volynyanina, Z.N., Vyshenkova, O.I.

TITLE: The Preparation of Crystalline Ferrous Bromide by the Sorption of Bromine by a Ferrous Bromide Solution

PERIODICAL: Sb. tr. Ocs. in-ta prikl. khimii, 1958, Nr 41, pp 193-209

ABSTRACT: Based on the data of the solubility in the system $FeBr_2 - H_2O$ and thermochemical calculations on the system $FeBr_2 - Br_2$ (gas) and $FeBr_3 - Fe$, the possibility of obtaining $FeBr_3$ without smelting has been proved and a method of production has been proposed.

M. Shiryayeva.

Card 1/1

VYSHENSKIY, V.V.

Study of convection heat exchange in a cyclone chamber. Izv.
AN Kazakh. SSR. Ser. energ. no.2:22-31 '61. (MIRA 14:12)
(Heat—Convection)
(Metallurgical furnaces)

S/137/62/000/006/008/163
A005/A101

AUTHOR: Vyshenskiy, V. V.

TITLE: Investigating convective heat exchange in a cyclone chamber

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 2, abstract 6B6
("Izv. AN KazSSR, Ser. energ.", 1961, no. 2 (20) 22 - 31, Kaz. summary)

TEXT: The author investigated convective heat and mass exchange in cyclone chambers of various geometrical parameters, during hot-air blast within a wide range of inflow velocities. Convective heat-exchange was studied on cyclone chamber models of three diameters and at four different air-inflow zones. Heat-emission coefficients are obtained in a range of 14 to 165 m/sec inflow velocity into the cyclone. The results of the experiments performed are well described by the criterial equation $Nu^c = 0.17 Re^{0.83} bx (d_2/d_1)^{0.25}$ for smooth-walled chambers. The roughness of the wall of a 0.005 scale increases the intensity of heat-emission by a factor of 1.5 as compared with a smooth wall. A comparison of the results obtained with investigations of heat emission in other units shows

Card 1/2

Investigating...

S/137/62/000/006/008/163
A005/A101

that the intensity of heat emission in a cyclone is ten times higher than in the initial section of a straight pipe, or a spiral tube, and several times higher than in a turbulent flow in long tubes.

V. Oparysheva

[Abstracter's note: Complete translation]

Card 2/2

VYSHENSKIY, V.V.

Convection heat exchange in a cyclone chamber. Trudy Inst. energ.
AN Kazakh. SSR 2:294-302 '60. (MIRA 15:1)
(Furnaces)

VYSHEPAN, K.-D.

Acceptor specificity in the glycolytic oxidation-reduction system of muscle tissue. A. E. Braumandl and K. Jellinger, *Nature* (London), **1951**, **169**, 101-103; *J. Physiol.* (London), **1951**, **47**, 107-113 (in English). Isotonic KCl or distilled H₂O extracts of rabbit or frog muscles and acetone-dried precipitates of such extracts were made up to a definite vol. with 0.15% NaHCO₃ + 0.075 M phosphate buffer. Spontaneous glycolysis of these acids was prevented by the addition of 0.14% Na₂hexosidophosphate (I), Na₂-glycerophosphate (II) and soluble starch or glucose + hexokinase (III) (Meyerhof) were used as oxidizable substrates, and α -ketoglutaric acid (IV), succinic (V) and -glutamic (VI) acids and phenylpyruvic acid (VII) were used as H₂ acceptors. The extent of glycolysis after incubating combinations of the above substrates and II acceptors at 37° for 1 hr. was tested by analysis of keto acids, lactic acid (VIII) and inorg. P in the solution, freed of protein with CCl₄CCl₃OH. In all systems where a reduction of pyruvate acid (IX) (used as a control) took place a practically equiv. decrease in IV was noted, with an equiv. increase in VIII, and, when I was used as a substrate, there was an equiv. increase in phosphoglyoxylic acid (X). Incubation of IV or IX with glucose and III caused considerable esterification of inorg. phosphate. V is similarly reduced but at a slightly lower rate, but no reduction of VI or VII with any of the substrates was observed, nor was any formation of X observed when I was used as a substrate. The glycolytic system of liver tissue seems to have a wider acceptor specificity than muscle tissue, or else the oxidation-reduction systems in liver tissue are of nonglycolytic origin.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4"

OREKHOVICH, V.N., red.; VYSHEPAN, Yo.D., red.; MIRONOVA, A.M., tekhn.
red.

[Chemical foundations of the processes of vital activities]
Khimicheskie osnovy protsessov zhiznedeiatel'nosti. Moskva,
Medgiz, 1962. 330 p. (MIRA 16:2)

(BIOCHEMISTRY)

LEDNEVA, R.K.; VYSHEPAN, Ye.D.; IVANOVA, K.I.

Effect of cycloserine stereoisomers on the synthesis of protein and
the lysis of *B. coli* cells. Antibiotiki 7 no.8:724-729 Ag '62.
(MIRA 15:9)

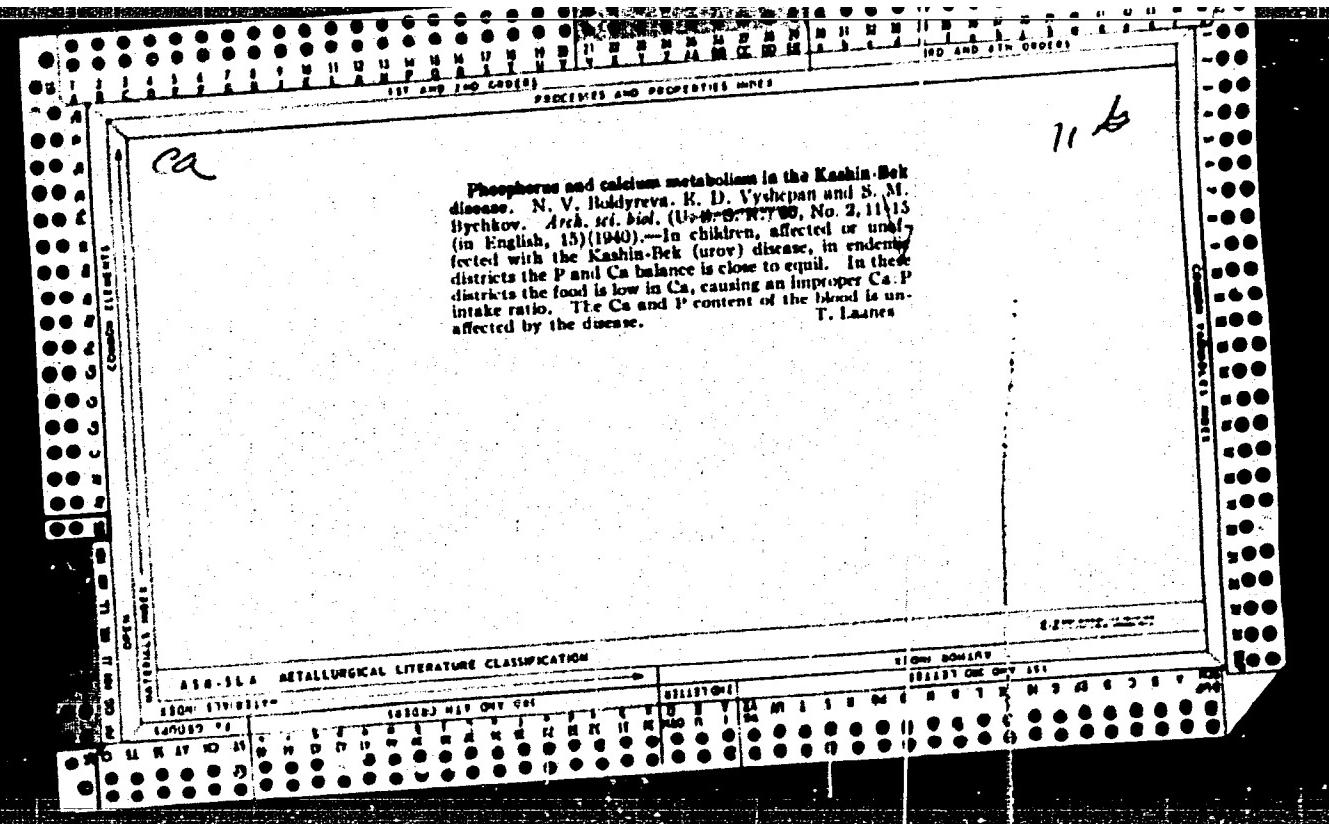
1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.
Chernukh) Instituta farmakologii i khimioterapii AMN SSSR.
(CYCLOSERINE) (ESCHERICHIA COLI) (PROTEINS)

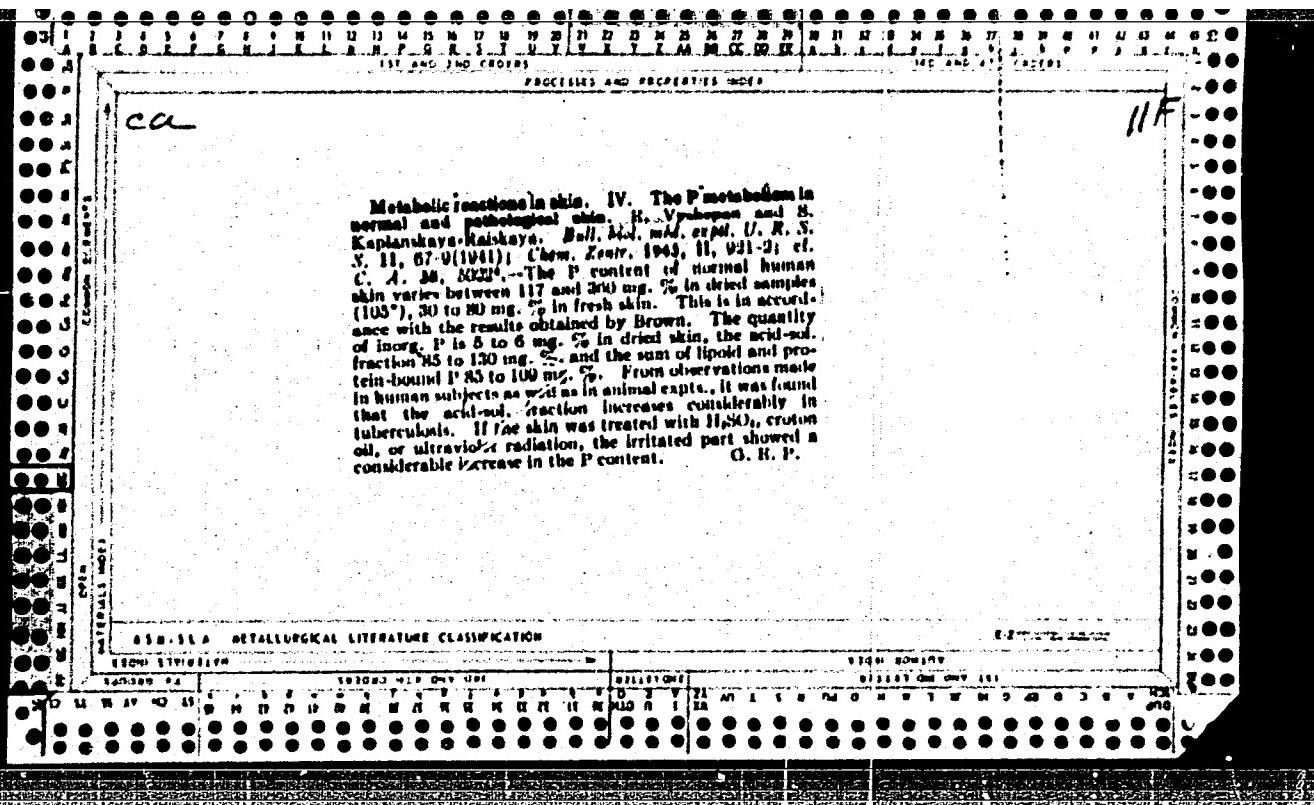
VYSHEPAN, E.D.

The influence of specific enzyme poisons and some other
chemical agents on the activity of glutamic aminopherase.

XV. Communication on the formation and breakdown of amino acids by
intramolecular transfer of amino groups.

E.D. VYSHEPAN BIOK. 5, no. 3, p. 271 1940.





CA

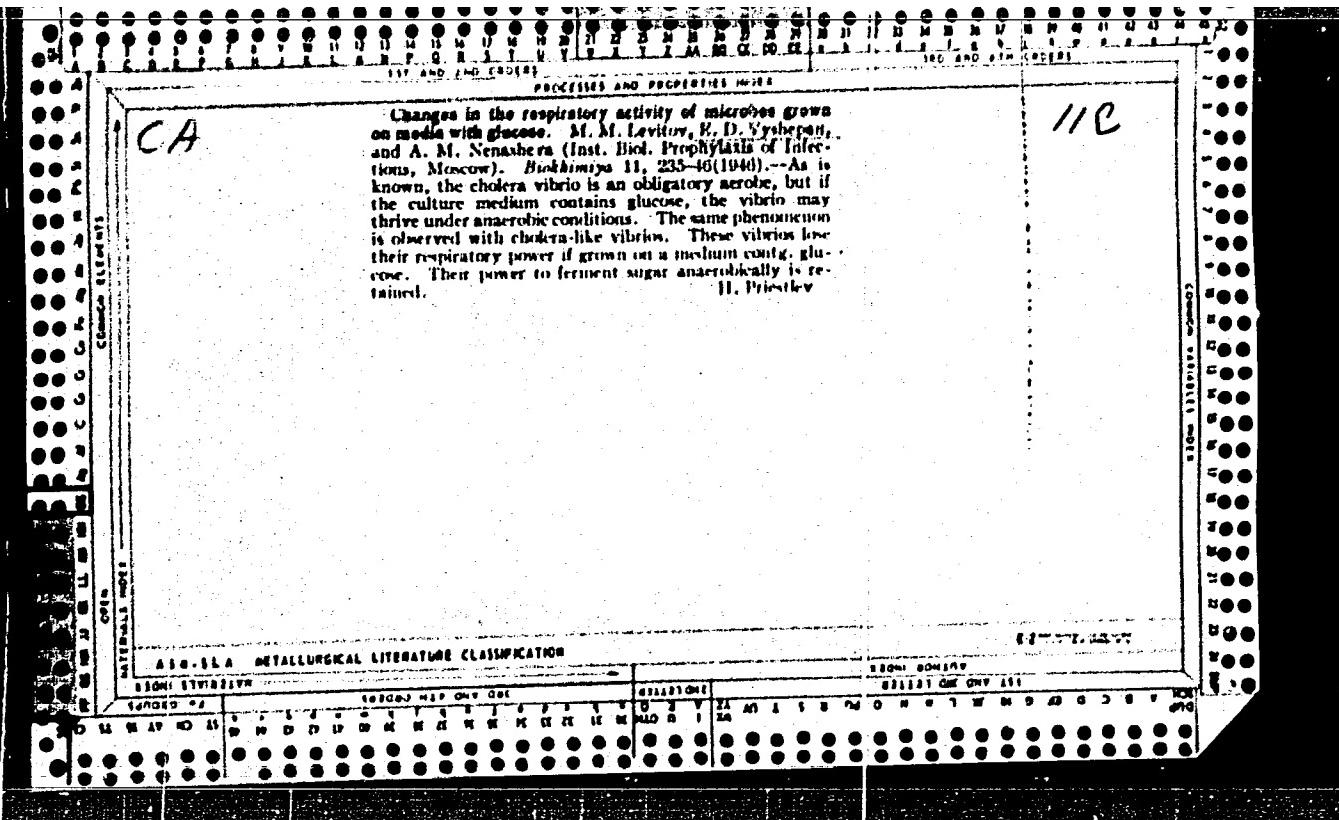
Determination of penicillin. M. M. Levitov, V. D. Vyshepan, and A. M. Nenashev (Inst. Biol. Prirnyat. Nauk of Tadzhikian, Moscow). *Biochimia* 10, 491-8 (1945) (Russian summary); cf. J. Hirsch, *Compt. rend. ann. d' arch. soc. torque sci. phys. nat.* No. 12, p. 382 (1943-44) (publ. 1945).—In the absence of an antibiotic, the bacterial cells in broth medium continue to multiply, and as a result there is an increase of respiration, as measured by a Warburg app. When penicillin is present, the amt. of O absorbed per unit time either remains const., or increases only slightly as compared to the control. Penicillin thus acts not on respiration but on the growth of the bacteria. An 18-hr. *staphylococcus* culture is centrifuged and suspended in a meat-peptone broth with 1% glucose. In each vessel of the Warburg app. is placed the same amt. of suspension, about 40-200 million cells per ml. Penicillin is then added in various concns. to each vessel, except to the control. Peptone broth is then added so that the vol. in each vessel is the same. The temp. is kept at 37°. Readings of the O absorbed are taken every 30 min. The method is accurate to 0.01-0.02 Oxford units, and the results are available after 1.2-3 hrs. No sterile materials are required. The method may be used not only for pure solns. of penicillin, but also for penicillin in blood and urine. II. Priestley

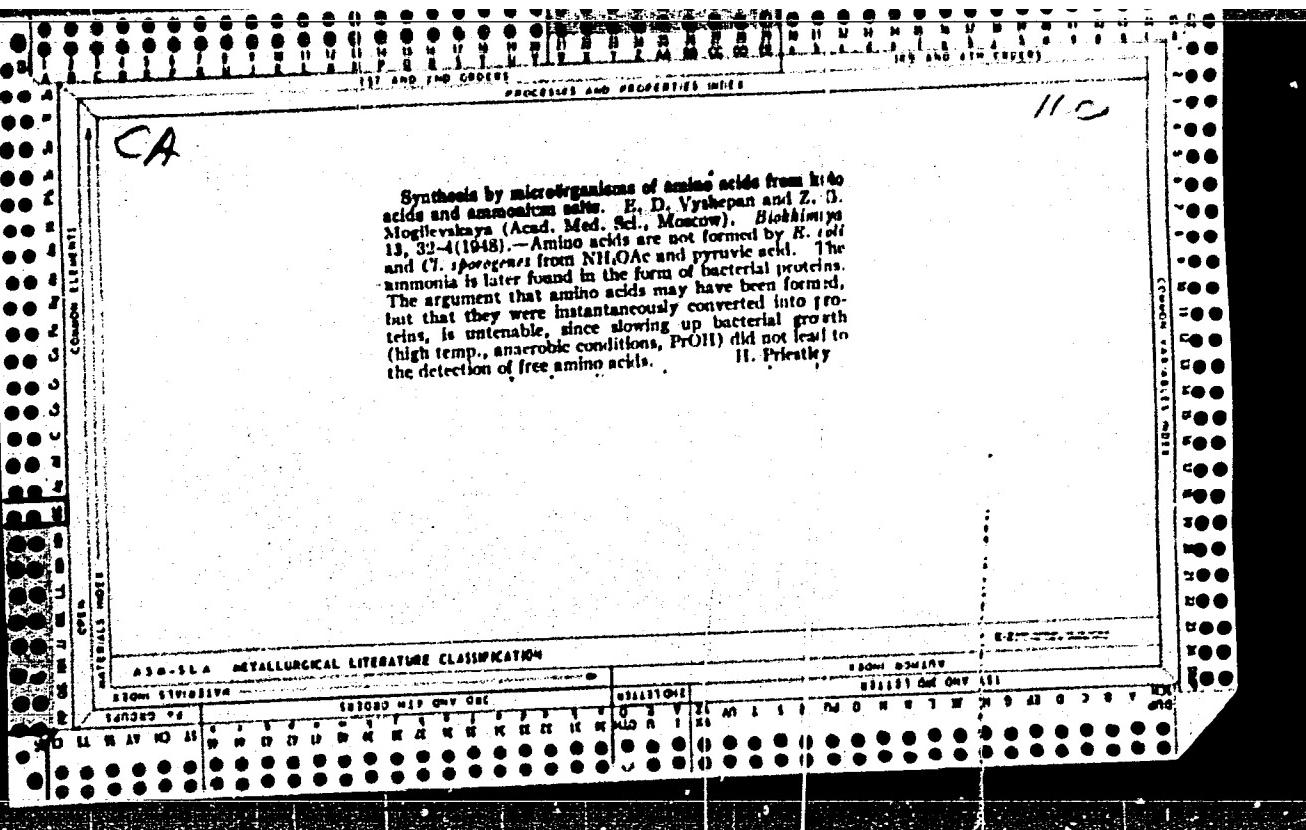
Inst. of Biological Prophylaxis of Infections, Moscow

100-114 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4"





VYSHEPAN, Ye.D.; KRASNOVA, T.V.; SHARLIKOV, I.Y.

Formation of α_1 -toxin of (lecithinase C) of Bac. perfringens (type A). Bio-khimia 18 no.5:576-581 S-0 '53. (MLR 6:10)

1. Laboratoriya khimii tkanej Instituta biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR, Moscow.
(Lecithinases) (Bacteria, Pathogenic)

Vishwanath E. D.

or complete destruction of the plant material. The plants were treated with dilute sulfuric acid. The pressure in the flasks was measured at various intervals of time. The essence of the mechanism of action of the acid is the decomposition of the cellulose and hemicellulose by the presence of the acid.

✓ - he P.M., E.D.

The content of α -amino acids in gramicidin S and in the bodies of some soil spore-forming bacteria. E. D. Vydrov
and I. M. Research New Antibiotics, Acad. Med. Scien-
ces (Inst. Research New Antibiotics, Acad. Med. Scien-
ces) Biokhimiya 19, 400-1(1954).—By a
method employing α -amino oxidase only an insignificant
quantity of α -amino acids was found in the cells of *Bacillus*
litteris. In the hydrolyzate of gramicidin S under similar
conditions α -phenylalanine was found. In the hydrolyzates
of leucospirate *B. mycoides* there was 3.9% α -amino N of
the total amino N and of the dextrospirope, 1.8%. In view of the
inaccuracies of the analytical method used, these differences
cannot be regarded as being significant. B. S. Levine

Op

GAUZE, G.F., KUDRINA, Ye.S., TRENINA, G.A., TOROPOVA, Ye.G., VYSHEPAN, Ye.D.

Formation of a new antibiotic actinoidin in cultures of Pro-
actinomyces actinoides [with summary in English]. Antibiotiki
3 no.1:51-55 Ja-1953 (MIRA 11:5)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.
(ANTIBIOTICS,
actinoidin, prod. by Proactinomyces actinoides (Rus))
(NOCARDIA,
Proactinomyces actinoides, prod. of actinoidin (Rus))

VYSHEPAN, Ye.D., PORFIR'YEVA, R.P.

Ammonia and glutamine content in the brain in bacterial intoxication.
(MIRA 11:11)
Vop.med.khim. 4 no.5:365-368 S-O '58

1. Otdel eksperimental'noy khimioterapii Instituta farmakologii
i khimioterapii AMN SSSR, Moskva.

(BACTERIA,
toxins, eff. on brain ammonia & glutamine (Rus))

(BRAIN, metab
ammonia & glutamine, eff. of bact. toxins (Rus))

(AMMONIA, metab.
brain, eff. of bact. toxins (Rus))

(GLUTAMINE, metab.
same (Rus))

VYSHEPAN, Ye.D.; ZUYEVA, V.S.

Effect of chlortetracycline on enzymatic hydrolysis of adenosinteri-phosphoric acid. Biokhimia 24 no.5:833-837 8-0 '59. (MIRA 13:2)

1. Otdel eksperimental'noy khimioterapii Instituta farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR, Moskva.

(ADENYLFYROPHOSPHATE chem.)

(CHLORTETRACYCLINE chem.)

(EDATHAMIL chem.)

VYSHEPAN, Ye.D.; IVANOVA, K.I.; CHERNYKH, A.M.

Effect of d,l-cycloserine on the process of transmination. Biul.
eksp.biol.i med. 47 no.8:52-55 Ag '59. (MIRA 12:11)

1. Iz Instituta farmakologii i khimioterapii AMN SSSR (dir. - deyst-
vitev'nyy chlen AMN SSSR V.V. Zakusov), Moskva. Predstavlena deystvitev'-
nym chlenom AMN SSSR V.V. Zakusovym.

(CYCLOSERINE pharmacol.)

(LIVER metab.)

(GLUTAMATES metab.)

(PYRUVATES metab.)

VYSHEPAN, Ye.D.; IVANOVA, K.I.

Obtaining polynucleotide phosphorylase from *Azotobacter vinelandii*
and polynucleotide synthesis. Sovr. metod. v biokhim. 1:259-266 '64.
(MIRA 18:5)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4

TONGUR, V.S.; VYSHEPAN, Ye.D.

Second Conference on Nucleic Acids. Usp. sovr. biol. 60 no.1:
152-159 Jl-Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4"

TONGUR, V.S.; VLADYCHENSKAYA, N.S.; ROMANOV, V.V.; VYSHEPAN, Ye.D.

Characteristics of RNA not extractable by pH 6,0 phenol from
Escherichia coli. Biul. eksp. biol. i med. 57 no. 2:65-68
F '64. (MIRA 17:9)

1. Laboratoriya biokhimii nukleinovykh kislot Instituta
biologicheskoy i meditsinskoy khimii AMN SSSR. Predstavlena
deystvitel'nym chlenom AMN SSSR V.N. Grekovichem.

TONCUR, V.S.; BALANDIN, I.G.; VYSHEPAN, Ye.D.; KHOROSHUTINA, E.B.

Synthesis of RNA in cell-free homogenates of leaves infected
with tobacco mosaic virus. Vop. virus 8 no.2:142-144 Mr-Ap'63
(MIRA 16:12)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR,
Moskva.

VYSHEPAN, Ye.D.; IVANOVA, K.I.; CHERNUKH, A.M.

Depression of the activity of glutamic-pyruvic aminopherase
with DL-cycloserine and other compounds. Biul. eksp. biol.
i med. 52 no.7:76-80 Jl '61. (MIRA 15:3)

1. Iz Instituta farmakologii i khimioterapii (direktor - deyst-
vitel'nyy chlen AMN SSSR V.V. Zakusov) AMN SSSR, Moskva.
Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Zakusovym.
(TRANSAMINASE) (CYCLOSERINE)

VYSHEPAN, Ye.D.; IVANOVA, K.I.; LEDNEVA, R.K.

Formation and deamination of alanine in *E. coli*. Biokhimiia
26 no.4:758-763 Jl-Ag '61. (MIRA 15:6)

1. Department of Chemotherapy, Research Institute of Pharmacology
and Chemotherapy, Academy of Medical Sciences of the USSR,
Moscow.

(*ESCHERICHIA COLI*)
(ALANINE)

VYSHEPAN, Ye.D.; IVANOVA, K.I.; LEDNEVA, R.K.

Mechanism of the action of cycloserine stereoisomers on the microbial cell. Biul. eksp. biol. i med. 52 no.10:58-60 O '61. (MIRA 15:1)

1. Iz otdela khimioterapii (zav. - prof. A.M.Chernukh) Instituta farmakologii i khimioterapii (dir. - deyatel'nyy chlen AMN SSSR V.V.Zakusov) AMN SSSR, Moskva. Predstavlena deyatel'nym chlenom AMN SSSR V.V.Zakusovym.
(CYCLOSERINE) (ESCHERICHIA COLI)

OREKHOVICH, V.N., otv. red.; BRAUNSSTEYN, A.Ye., red.; KAPLANSKIY,
S.Ya., red.; RED'KIN, I.A., red.; VYSHEPAN, Ye.D., red.;
KUZ'MINA, N.S., tekhn. red.

[Problems arising in modern biochemistry] Aktual'nye voprosy
sovremennoi biokhimii. Moskva, Medgiz. Vol.2. [Chemistry and
the mechanism of enzyme action] Khimiia i mekhanizm deistviia
fermentov. 1962. 251 p. (MIRA 15:6)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut biolo-
gicheskoy i meditsinskoy khimii. 2. Institut biologicheskoy i
meditsinskoy khimii Akademii meditsinskikh nauk SSSR, Moscow
(for Orekhovich, Braunshteyn, Kaplanskiy).

(ENZYMES)

VYSHEPAN, Ye.D.; LEDNEVA, R.K.; IVANOVA, K.I.

Free amino acids in *Escherichia coli* during the blockade of protein synthesis by chlortetracycline. *Biokhimiia* 26 no.3:489-493 My-Je '61. (MIRA 14:6)

1. Institute of Pharmacology and Chemotherapy, Academy of Medical Sciences of the U.S.S.R., Moscow.
(*ESCHERICHIA COLI*) (AMINO ACIDS) (AUREOMYCIN)

VYSHEPOL'SKIY, S., kandidat ekonomiceskikh nauk.

Pacific Ocean routes after the second World War. Mor.flot 15 no.2:
29-31 F '55. (MIRA 8:5)
(Pacific Ocean--Trade routes)

NIKITYUK, B.A.; VYSHESLAVOVA, M.Ya.

Mechanisms of disturbed embryonal development. Part 1: The influence of physical factors. Arkh. anat., glist. i embr. 47 no. 8:103-110 Ag '64. (MIRA 18:4)

1. Kafedra normal'noy anatomi (zav. - chlen-korrespondent AMN SSSR prof. D.A.Zhdanov) 1-go Moskovskogo ordena Lenina meditsinskogo Instituta imeni Sechenova.

VYSHESLAVOVA, V.A.; IONOV, T.V.; SULEYMANOV, Z.I.; MARKOVA, L.A.; OSOKIN,
L.L.; ROMANENKO, A.K.; GUSLISTAYA, Ye.G.; DASHEVSKIY, I.Ya.;
BOGUSLAVSKIY, D.B.; JZINA, R.V.

Specific features in the technological process of viscose cord
production at the Dnepropetrovsk tire factory. Kauch.i rez. 24
no.1:1-4 Ja '65. (MIRA 18:3)

1. Dnepropetrovskiy shinnyy zavod i Nauchno-issledovatel'skiy
institut shinnoy promyshlennosti.

DIMOVA, T.N.; VYHESLAVTSEV, A.A.

Synthesis of sodium hydride. Zhur. neorg. khim. 5 no.10:2153-2156
O '60. (MIRA 13:10)

I. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
Akademii nauk SSSR.
(Sodium hydride)

5.2400 also 2209

84213
S/078/60/005/010/003/021
B004/B067

AUTHORS: Dymova, T. N., Vysheslavtsev, A. A.

TITLE: Production of Sodium Hydride ✓

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,
pp. 2153-2156

TEXT: The authors describe a method of producing sodium hydride without using catalysts and emulsifiers. Electrolytic hydrogen and electrolytic sodium with 98.5% Na, compressed in gas bottles, served as initial substances according to F0CT 3279-55 (GOST 3279-55). The apparatus schematically shown in Fig. 1 consisted of an electrically heated autoclave with a stirring mechanism (400 - 700 rpm). 23 - 46 g of purified Na, freed from oil, were introduced into the autoclave. After the air had been displaced by hydrogen, it was heated (pressure of 2 - 4 atm); at 100°C, the stirring mechanism was switched on, and the temperature was increased to 280 - 350°C. The autoclave was emptied in nitrogen atmosphere. The product obtained was decomposed with water in an

Card 1/2

Production of Sodium Hydride

84213
S/078/60/005/010/003/021
B004/B067

apparatus shown in Fig. 2, the volume of the hydrogen released was measured, and NaOH was titrated. The authors give equations for the correction of the analysis for the metallic sodium and NaOH content of sodium hydride. Table 1 gives the data of the first series of experiments. The stirring mechanism was frequently interrupted. The second series (Table 2) was made with a stirring mechanism which the authors described as "elastic", and whose shaft was equipped with knives or narrow steel rods. This mechanism was very efficient, and a preparation was obtained with 91-98% NaH. An increase of pressure to 25 atm gave no better results. Above 350°C NaH was decomposed. The authors thank V. I. Mikheyeva and A. A. Zinov'yev for advice. There are 2 figures, 2 tables, and 12 references: 1 Soviet, 8 US, 3 British, and 1 French.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences USSR)

SUBMITTED: July 27, 1959

Card 2/2

VYSHESLAVTSEV, A.A., inzh.

Standardizing the dimensions of buildings used in food industry processing. Prom. stroi. 37 no.9:9-11 S '59. (MIRA 13:1)

1. Gipropishcheprom.
(Food industry) (Factories--Design and construction)

VYSHESLAVTSEV, Lev Valeriyevich, inzh.; BASTYNETS, Vladimir Mikhaylovich,
inzh.; SHTEYNBOK, G.Yu., inzh., ved. red.; TSOPP, L.E., inzh.,
red.; SOROKINA, I.M., tekhn. red.

[Oscillators for the alignment of radio receivers] Generatory
dlia regulirovki radiopriemnikov. Moskva, Filial Vses. in-ta
nauchn. i tekhn. informatsii, 1958. 30 p. (Perekrovi nauchno-
tekhnicheskii i proizvodstvennyi opyt. Tema 36, No.P-58-4/2)
(MIRA 16:3)

(Oscillators, Electron-tube)
(Radio--Receivers and reception)

VOLOKHONSKAYA, M.L.; VORONKO, N.D.; VYSHESLAVTSEV, S.I.;
YAROSHEVSKIY, F.Yu.

Results of semicarbazide-cadmium therapy in patients with
malignant tumors in incurable stage. Vop. onk. 9 no.6:92-104
'63. (MIRA 17:8)

1. Iz polikliniki No.3 AN SSSR (glavnnyy vrach - D.I. Sherstnev,
s 1958 g. - I.A. Strunin, zamestitel' glavnogo vracha po
lechebnoy chasti - N.P. Vasil'yova). Adres avtorov: Leningrad,
V-164, Universitetskaya naberezhnaya, 5, Poliklinika No.3
AN SSSR.

KAPLAN, Ya.I.; OBUKHOV, A.I.; PILEVSKIY, M.V.; SHNITMAN, I.L.;
VYSHESLAVTSEV, S.I., nauchnyy red.; VOLNYANSKIY, A.K., glav.
red.; SOKOLOV, D.V., zam. glav. red.; TARAN, V.D., red.;
SEREBRYANNIKOV, I.G., red.; MIKHAYLOV, K.A., red.;
STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAEVSKIY,
Ye.Ya., red.; SHIROKOVA, G.M., red. izd-va; GOL'BERG, T.M.,
tekhn. red.

[Assembly of elevators] Montazh liftov. Moskva, Gosstroizdat,
1962. 227 p. (MIRA 15:7)

(Elevators)

ACC NR: AP7004809

SOURCE CODE: UR/0413/67/000/001/0149/0149

INVENTOR: Budyanov, V. P.; Krivonosov, A. I.; Vysheslavtsev, V. N.

ORG: None

TITLE: A converter for changing temperature to frequency. Class 74, No. 190246

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 149

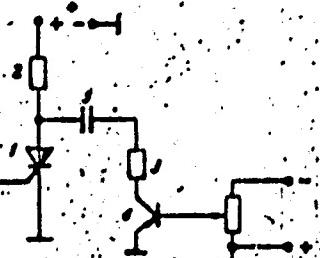
TOPIC TAGS: temperature conversion, relaxation oscillator, frequency control, transistorized oscillator

ABSTRACT: This Author's Certificate introduces a converter for changing temperature to frequency. The unit contains a transistor and a relaxation oscillator based on controlled or switching diodes. In order to control the frequency of the oscillations and simplify the converter, the collector of the transistor is connected through a resistor to a capacitor while the emitter is connected to the power supply terminal.

Card 1/2

UDC: 621.362:621.317.39:53.087.92

ACC NR: AP7004809



1—thyristor; 2 and 3—resistors; 4—power supply; 5—capacitor; 6—transistor

SUB CODE: 09, 14/ SUBM DATE: 03May65

Card 2/2

VySHESLAVTSEVA, T.V.

VYSHESLAVTSEVA, T.V.

Characteristics of breeder carp in the Volga Delta. Trudy
VNIRO 32:92-98 '56. (MIRA 10:10)
(Volga Delta--Carp)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4

VYSHESLAVTSEVA, T.V.
VYSHESLAVTSEVA, T.V.

Observations on the development of carp eggs in the Volga Delta.
Trudy VNIRO 32:99-107 '56.
(Volga Delta--Carp) (MIRA 10:10)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410014-4"

VYSHEVSKIY, A. Sh., Cand Med Sci -- (diss) "Effect of vitamin C on the morphology of the thyroid gland which contains iodine and an iodine balance." L'vov, 1960. 14 pp; (L'vov State Medical Inst, Chair of Nutritional and Communal Hygiene, Chair of Histology); 200 copies; price not given; (KL, 30-60, 140)

S/020/63/149/002/001/028
B112/B180

AUTHORS: Agranovich, M. S., Vyshik, M. I.

TITLE: Elliptic boundary value problems depending on a parameter

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 223-226

TEXT: The boundary value problem under consideration is due to I. G. Petrovskiy. It reads

$$Au \equiv \sum_{\alpha+|\beta| \leq s} a_{\alpha\beta}(x) q^\alpha D^\beta u(x) = f(x) \quad \text{in } G, \quad (1)$$

$$B_v u \equiv \sum_{\alpha+|\beta| \leq m} b_{\alpha\beta}(y) q^\alpha D^\beta u(x)|_{x=y} = g_v(y) \quad (y \in \Gamma, v = 1, \dots, r). \quad (2)$$

and is investigated in a bounded region G of the n -dimensional space P^n . The coefficients of the system and of the boundary operators are assumed to be dependent on a parameter $q \in Q$, where Q is an angular region of the complex plane with the vertex in the coordinate origin. Algebraic Card 1/2

Elliptic boundary value problems ...

S/020/63/149/002/001/028
B112/B180

conditions (to be fulfilled by the system and by the boundary operators) are derived which are sufficient for the unambiguous solvability of the problem for large $|q|$.

PRESENTED: October 12, 1962, by I. G. Petrovskiy, Academician

SUBMITTED: October 8, 1962

Card 2/2

VYSHIN, V.I.

Interpretation of the optical activity of tellurium. Vest. Mosk. un. Ser. 3: Fiz., astron. 18 no.3:6-10 My-Je '63. (MIRA 16:10)

1. Kafedra optiki Moskovskogo universiteta.

53700

25368
S/079/61/031/008/006/009
D215/D304

AUTHORS: Razuvyev, G.A., Latayeva, V.N., and Vyshinskaya, L.I.

TITLE: Free radicals reactions of biscyclopentadiene-diphenyl titanium

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 8, 1961, 2667-2674

TEXT: The authors give a short survey of achievements in the field of organic titanium compounds and their brief characteristics, all based exclusively on western publications. In their experimental work they investigated the behaviour of $(C_6H_5)_2Ti(C_6H_5)_2$ under reaction conditions, used previously for phenyl derivatives of other metals. They investigated the reactions of this compound with different solvents: benzene, methyl and isopropyl alcohols, $CHCl_3$ and CCl_4 . When the solutions of the compound were heated in sealed tubes in complete absence of oxygen, a sharp change in their color was observed, from the

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Free radicals...

initial yellow one to a dark green, which is the color of titanium compounds of lower valencies. The reduction of the titano-organic compound takes place probably according to the scheme:
 $(C_5H_5)_2Ti(C_6H_5)_2 \rightarrow (C_5H_5)_2Ti + 2C_6H_5$. The formation of free phenyl radicals was confirmed by the authors' further experiments: the free radicals removed hydrogen from alcohols and $CHCl_3$, chlorine from CCl_4 , dimerized in benzene and reacted with metallic Mg in a CCl_4 solution. $(C_5H_5)_2Ti(C_6H_5)_2$ is fairly stable in benzene or alcohol solutions, but is easily converted to the dichloride in CCl_4 alone, or in the presence of mercuric chloride, in which case the phenyl group is exchanged for the chloro group and $(C_5H_5)_2TiCl_2$ and C_6H_5MgCl are obtained. This exchange reaction (yield $\pm 70\%$) takes place simultaneously with that of free radicals. The reverse reaction of replacement of chloro by the phenyl group takes place when the dichloride is heated with phenylmercuric

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S/079/61/031/008/006/009
D215/D304

Free radicals...

chloride. There are 1 graph and 16 references: 2 Soviet-bloc and 14 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: C.H.E. Bawn, I. Gladstone, Pr. Chem. Soc. 227, (1959); A. Jensen, F. Basals, J. Am. Chem. Soc. 81, 3813, (1959); W.P. Long, J. Am. Chem. Soc. 81, 5312, (1959); and D. H. Hey, T. Peters, J. Chem. Soc. 79, (1960).

SUBMITTED: July 14, 1960

X

Card 3/3

L 24832-65 ENT(m)/EPP(c)/EPR/EWP(j) Fe-4/Pr-4/Pb-4 RM

ACCESSION NR: AP4040488

39
28
B
S/0020/64/160/002/0383/0384

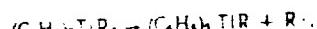
AUTHOR: Razuvayev, G.A., (Corresponding member AN SSSR), Latyayeva, V.N.,
Vyginskaya, L.I.

TITLE: Decomposition of bis(cyclopentadienyl) derivatives of titanium in solvents

SOURCE: AN SSSR Doklady v. 160 no. 2 1964. 383-38.

TOPIC TAGS: bis(cyclopentadienyl) titanium, organotitanium compound, electron paramagnetic resonance, alkyltitanium solvation

ABSTRACT: The purpose of the work was to determine if there is any difference in the decomposition of bis(cyclopentadienyl) titanium in benzene and in tetrahydrofuran. It was found that the decomposition of the compound in benzene is accompanied by the formation of a complex of the type $(C_6H_5)_2TiR_2 \cdot C_6H_6$. In tetrahydrofuran the reaction is more complex.



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L 24832-65

ACCESSION NR: AP4049488

The nature of the radical does not affect the general nature of the exchange and decomposition reactions of $(C_5H_5)_2TiR_2$. Orig. art. has: 1 figure and 3 chemical equations.

ASSOCIATION: Nauchno issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute of Chemistry, Gorky State University)

SUBMITTED: 02Jul64

ENCL: 00

SUB CODE: OC

NO REF Sov: 002

OTHER: 002

Card 2/2

RAZUVAYEV, G.A.; LATYAYEVA, V.N.; VYSHTINSKAYA, L.I.

Reactions of bicyclic pentadienylidenebenyltitanium with benzyl chloride and triphenylchloromethane. Zhur. ob. khim. 35 no.1: 169-174 Jan '65. (MIKA 18:2)

ACCESSION NR: AP4040951

S/0020/64/156/005/1121/1123

(Corresponding member AN SSSR)

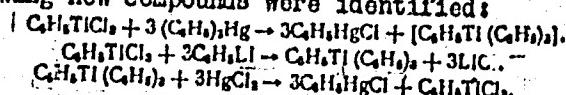
AUTHOR: Razuvayev, G. A., Latyayeva, V. N.; Vyshinskaya, L. I.; Vyshinskiy, N. N.

TITLE: New monocyclopentadienyl derivatives of titanium

SOURCE: AN SSSR. Doklady*, v. 156, no. 5, 1964, 1121-1123

TOPIC TAGS: titanium, titanium derivative, monocyclopentadienyl derivative, Ti monocyclopentadienyl derivative, phenol, cyclopentadienyl timethyltitane, diphenyl mercury, phenyl mercury chloride, organotitanium compound

ABSTRACT: The authors analyzed reactions wherein the Cl atoms in monocyclopentadienyl titanium trichloride were replaced with phenyl groups. G. A. Razuvayev it Cl (DAN, 150 (1963) 566) Previously showed that, during the reaction of titanium tetrachloride, all four Cl atoms are replaced by phenyl radicals. The authors therefore initially analyzed the exchange reaction of diphenyl mercury with $C_6H_5TiCl_3$ at a 3 to 1 ratio in a benzene solution at room temperature. The following new compounds were identified:



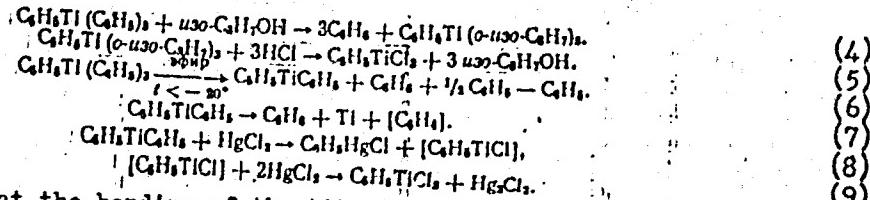
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ACCESSION NR: AP4040951



Authors conclude that the bonding of the titanium atom with the cyclopentadienyl ring in the examined compounds is very similar to a ferrocene bond. Orig. art. has: 11 Formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute for Chemistry of Gorki State University)

SUBMITTED: 17Feb64

ENCL: 00

SUB CODE: IC

NO REF SOV: 003

OTHER: 002

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RAZUVAYEV, G.A.; LATYAYEVA, V.N.; VYSHINSKAYA, L.I.

Decomposition of bis(cyclopentadienyl derivatives of titanium in
solvents. Dokl. AN SSSR 159 no.2:383-384 N '64.

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom
gosudarstvennom universitete im. N.I. Lobachevskogo. 2. Chlen-
korrespondent AN SSSR (for Razuvayev). (MIRA 17:12)

RAZUVAYEV, G.A.; LATYAYEVA, V.N.; VYSHINSKAYA, L.I.

Free radical reactions of bis-cyclopentadienyldiphenyltitanium.

Zhur. ob. khim. 31 no.8. 2667-2674 Ag '61. (MIRA 14:8)

(Titanium organic compounds)

(Radicals (Chemistry))